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Patent  
Attorney's Docket No. 024705-083

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

HAYASHIZAKI

Application No.: 09/269,573

Filed: July 16, 1999

For: METHODS FOR DETECTING  
MUTATION IN BASE SEQUENCE

Group Art Unit: 1655

Examiner: B. Forman

**REPLY & AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In complete response to the Official Action mailed March 23, 2001, please amend the above-cited application as follows:

**IN THE CLAIMS**

Please replace claims 1, 2, 4, 5, 7-9, 11, 15, 18, 23-25, 27, 32, and 33 with the following amended claims.

- Sub 1
1. (Three times Amended) A method for detecting nucleic acid fragment and/or PNA having a mutation, comprising the steps of:
- (A) hybridizing at least one fragment among one or more fragments fixed on a substrate, which fragments are selected from the group consisting of one or more nucleic acid fragments and one or more PNA fragments and have all of a sequence of full-length gene, with at least one fragment of which mutation is to be assayed, wherein said fragment is selected from the group consisting of one or more nucleic acid fragments and one or more PNA fragments;
- (B) binding a labeled protein, said protein specifically binding to a mismatched base pair occurring between the hybridized fragments having a mutation; and

(09/99)